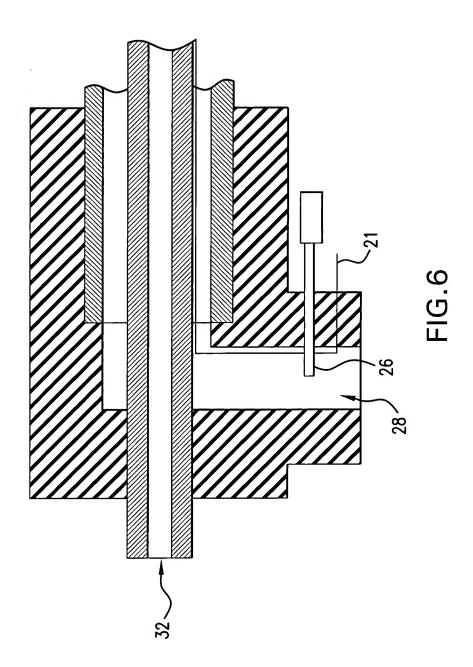


FIG.5



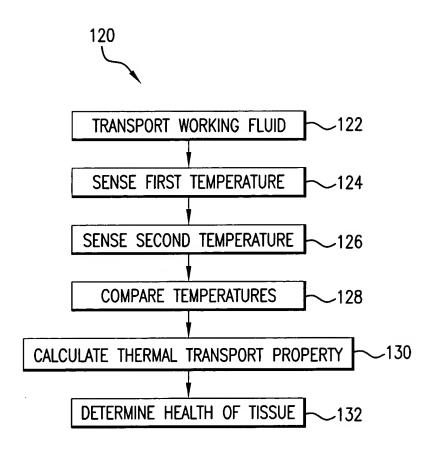


FIG.7

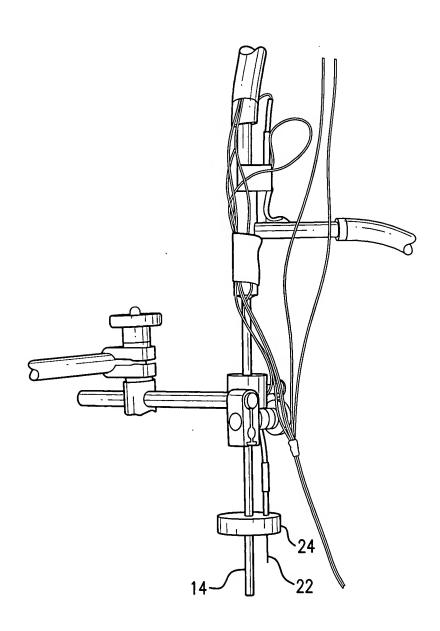
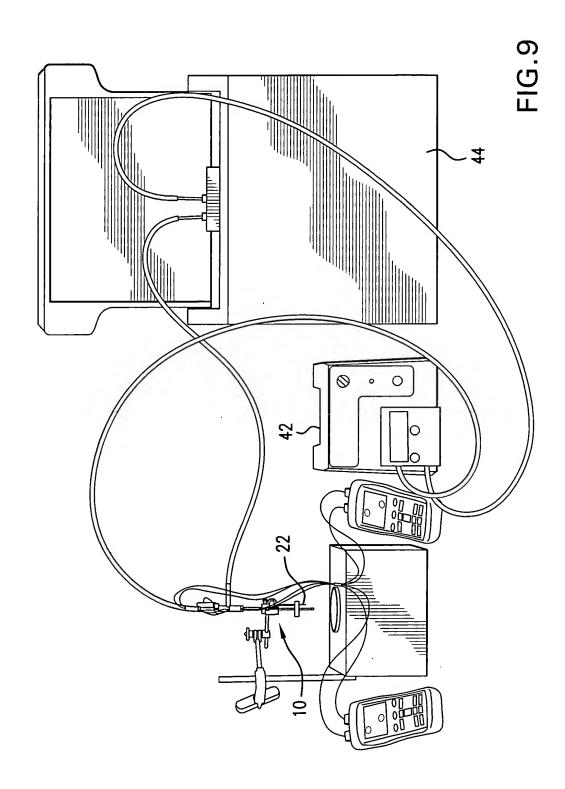


FIG.8



$\Box$					Γ	C	 6	_							2	Π
						20	30	170	117.96							
						20	. 37	170	200.53				,		5	
						25	30	170	58.98						5	
						25	37	170	141.55	:					5	
			¥	(W/m-K)	0.617	re (C)=	=()) =	Flow rate (mL/min)=				¥	(W/m-K)	0.5	drop (C)=	
es			п	(Pa-s)	0.000797	Coolant inlet temperature (C)=	Coolant outlet temperature (C)=	Flow rate	ing capacity (W)=m*Cp*(Tout-Tin)=			п	(Pa-s)		Temperature drop (C)=	
The cooling capacity of the brain cooling device	,	30C	сb	(J/kg–K)	4180				Maximum cooling capacity		30C	ථ	(J/kg-K)	3850		
The cooling capacity		Water Properties @ 30C	б	(kg/m3)	966						Brain Properties @ 30C	р	(kg/m3)	1080		

FIG. 10

			-(a) smit miles	002	003	000	1200
			-(c) alling filling	200	200	200	0071
		Brain	Brain radius (m)=	0.055	0.055	0.055	0.055
		Brain v	Brain volume (m3)=	0.000697	0.000697	0.000697	0.000697
		Brair	Brain mass (kg)=	0.752663	0.752663	0.752663	0.752663
	Ŗ	Required cooling capacity (W)=m*Cp*DT=		48.30	24.15	16.10	12.07
Calorimetric Experiments	Experiments						
Time	Tip Temperature	Calorimeter temperature			Flow rate	Water	
(minute)	(0)	(C)			(mL/min)	(dram)	
			To (C) =	23.3	170	20	
	10.4	23.3					
2	10.2	23.0		:			
3	9.7	22.5					
4	9.6	21.9					
5	9.2	21.2					
6	9.1	20.5					
7	8.7	19.7					
8	8.5	19.0					
9	8.2	18.3					
10	8.0	17.8					
			If (C) =	16.1			
	Cooling	Cooling capacity (W)= $m^*Cp^*DT=$	2.508				FIG. 10-1

